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Notes on the Algae - IV

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Butler University
Botanical Studies
(1929-1964)

Edited by

J. E. Potzger

The *Butler University Botanical Studies* journal was published by the Botany Department of Butler University, Indianapolis, Indiana, from 1929 to 1964. The scientific journal featured original papers primarily on plant ecology, taxonomy, and microbiology. The papers contain valuable historical studies, especially floristic surveys that document Indiana's vegetation in past decades. Authors were Butler faculty, current and former master's degree students and undergraduates, and other Indiana botanists. The journal was started by Stanley Cain, noted conservation biologist, and edited through most of its years of production by Ray C. Friesner, Butler's first botanist and founder of the department in 1919. The journal was distributed to learned societies and libraries through exchange.

During the years of the journal's publication, the Butler University Botany Department had an active program of research and student training. 201 bachelor's degrees and 75 master's degrees in Botany were conferred during this period. Thirty-five of these graduates went on to earn doctorates at other institutions.

The Botany Department attracted many notable faculty members and students. Distinguished faculty, in addition to Cain and Friesner, included John E. Potzger, a forest ecologist and palynologist, Willard Nelson Clute, co-founder of the American Fern Society, Marion T. Hall, former director of the Morton Arboretum, C. Mervin Palmer, Rex Webster, and John Pelton. Some of the former undergraduate and master's students who made active contributions to the fields of botany and ecology include Dwight W. Billings, Fay Kenoyer Daily, William A. Daily, Rexford Daudenmire, Francis Hueber, Frank McCormick, Scott McCoy, Robert Petty, Potzger, Helene Starcs, and Theodore Sperry. Cain, Daudenmire, Potzger, and Billings served as Presidents of the Ecological Society of America.

Requests for use of materials, especially figures and tables for use in ecology text books, from the *Butler University Botanical Studies* continue to be granted. For more information, visit www.butler.edu/herbarium.

NOTES ON THE ALGAE—IV

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The specimens cited here are to be found in the writer's personal herbarium which is on file in the Herbarium of Butler University, the Cryptogamic Herbarium of the Chicago Natural History Museum and the personal herbarium of Francis Drouet, Chicago.

IV—DINOPHYCEAE

PERIDINIUM VOLZII f. VANCOUVERENSE (Wailes) Lefèvre, Lefèvre, 1932. 78, 183, Figs. 895-898. Syn. *P. striolatum* Wailes, Vancouver, Museum Notes, III, 1928, p. 7, (not *P. striolatum* Playfair); *P. vancouverense* Wailes, Ann. Protistol., III, 1931, p. 110.

According to available published reports, *Peridinium volzii* f. *vancouverense* (Wailes) Lefèvre heretofore has been found in British Columbia loc. cit., Australia ¹ and Minnesota ². Indiana is now added to that list.

The type specimen collected in Vancouver, British Columbia, is not available for study at the University of British Columbia or the Pacific Biological Station at Nanaimo. Apparently types of dinoflagellates were not kept by G. H. Wailes.

Further unsuccessful attempts were made to borrow type or otherwise authenticated specimens relating to the Australian and Minnesota reports.

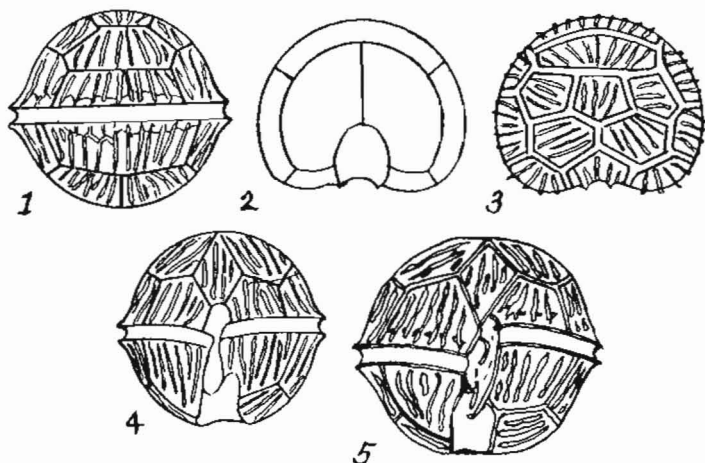
The Indiana dinoflagellate (see fig. 5) resembles very closely the description and drawings (see figs. 1-4) of *Peridinium striolatum* loc. cit., however, the maximum length and width of the former are 72 μ instead of 65 μ as noted for Wailes' specimen.

Specimens seen: INDIANA: ELKHART COUNTY: With *Ceratium Hirundinella* (O.F.M.) Schr., *Fragilaria crotonensis* Kitton, *Gomphosphaeria aponina* Kütz. and *Botryococcus Braunii* Kütz. Net collection from Round Lake, 2 miles north of Bristol, F. K. & W. A. Daily 2626, Aug. 27, 1952, net collection, F. K. & W. A. Daily 2745, July 14, 1955.

I wish to thank J. V. Prohaska, M.D., owner of Round Lake, for collecting

¹ Playfair, G. I. Peridineae of New South Wales. Proc. Linn. Soc. New South Wales. 44:793-818. 1919 (1920).

² Eddy, S. The Freshwater Armored or Thecate Dinoflagellates. Trans. Amer. Microsc. Soc. 44:277-321. 1930.



Figs. 1-4. *Peridinium striolatum* Wailes. Holotype. Dorsal, antapical, apical and ventral views. (From Wailes).

Fig. 5. *Peridinium volzii* var. *vancouverense* (Wailes) Lefèvre. F. K. and W. A. Daily collection no. 2745. Ventral view.

privileges; Dr. Rufus Thompson for verifying the identification of the alga and Dr. Robert F. Scagel, Institute of Oceanography, University of British Columbia, Vancouver, for providing pertinent information and printed matter. The drawings of *P. striolatum* Wailes were reproduced with the permission of T. H. Ainsworth, Curator of the City Museum, Vancouver, British Columbia. Suggestions and aid of Mrs. Fay K. Daily and Dr. Francis Drouet are gratefully acknowledged.